

Title (en)

HIGHLY DISPERSE MAGNETIC METAL OXIDE PARTICLES, PROCESSES FOR THEIR PREPARATION AND THEIR USE

Title (de)

HOCHDISPERGIERTE MAGNETISCHE METALLOXIDTEILCHEN,PRODUKTIONSVERFAHREN UND ANWENDUNG

Title (fr)

PARTICULES D'OXYDE METALLIQUE MAGNETIQUE HAUTEMENT DISPERSEES, PROCEDES POUR LES PREPARER ET LEUR UTILISATION

Publication

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Application

**EP 95924916 A 19950622**

Priority

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Abstract (en)

[origin: US5776360A] PCT No. PCT/EP95/02441 Sec. 371 Date Jan. 3, 1997 Sec. 102(e) Date Jan. 3, 1997 PCT Filed Jun. 22, 1995 PCT Pub. No. WO96/02060 PCT Pub. Date Jan. 25, 1996 This invention relates to magnetic particles comprising mixed oxides of divalent metals and iron (III), having a diameter of 1-10 nm and a surface area of 120-350 m<sup>2</sup>/g, with silanes bound to the surface of said particle. It also relates to (1) the process for making said particles by simultaneous precipitation and silanization from aqueous solution and (2) their use as carrier materials for the magnetic separation of substances immobilized therewith.

IPC 1-7

**H01F 1/36**; **H01F 1/44**; **G01N 33/543**; **B03C 1/01**

IPC 8 full level

**H01F 1/34** (2006.01); **B03C 1/01** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6806** (2018.01); **C12Q 1/6834** (2018.01); **G01N 33/543** (2006.01); **H01F 1/00** (2006.01); **H01F 1/36** (2006.01); **H01F 1/44** (2006.01)

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